

FEB 19 2002

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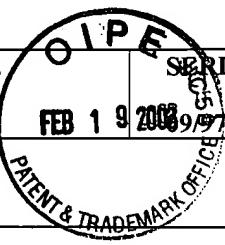
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ATTY. DOCKET NO.		SERIAL NO.	FILING DATE			
17509-0020		09/975,786	October 11, 2001			
APPLICANT(S)		GROUP				
Sheppard, Jr., et al.		1614				
U.S. PATENT DOCUMENTS						
EXAMINER'S INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>mhh.</i>	3,560,358	02/02/71	Black, et al.			
	3,798,141	03/19/74	Yahalom et al.			
	4,345,981	08/24/82	Bennett et al.			
	4,360,019	11/23/82	Portner et al.			
	4,585,652	04/29/86	Miller et al.			
	4,731,049	03/15/88	Parsi			
	4,793,825	12/27/88	Benjamin et al.			
	5,042,975	08/27/91	Chien et al.			
	5,167,625	12/01/92	Jacobsen et al.			
<i>↓</i>	5,200,051	04/06/93	Cozzette et al.			
FOREIGN PATENT DOCUMENTS					TRANSLATION YES NO.	
	DOCUMENT NUMBER	DATE	COUNTRY	NAME	<input type="checkbox"/>	<input type="checkbox"/>
<i>mhh.</i>	93/03790	03/04/93	WO	Rutgers, The State University of NJ		
	197 16 683	06/04/98	DE	Fraunhofer Ges Forschung	<input checked="" type="checkbox"/>	
	01/28629	04/26/01	WO	Abiomed, Inc		
<i>↓</i>	01/37926	05/31/01	WO	Abiomed, Inc.		
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)						
<i>mhh.</i>	Barilla et al., Optical Materials, 17(1-2):91-94 (2001).					
	Kwon, et al., "Electrically Erodible Polymer Gel for Controlled Release of Drugs," Nature 354:291-293 (1991).					
	Low, et al., "Microactuators Towards Microvalves for Responsive Controlled Drug Delivery," Sensors & Actuators B 67: 149-60 (2000).					
	Madou & Florkey, "From Batch to Continuous Manufacturing of Microbiomedical Devices," Chem. Rev., 100: 2679-92 (2000).					
EXAMINER	<i>Marcia H. S.</i>			DATE CONSIDERED		<i>7/25/03</i>
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
mark	5,202,018	04/13/93	Horányi et al.			
	5,252,294	10/12/93	Kroy et al.			
	5,279,607	01/18/94	Schentag et al.			
	5,324,316	06/28/94	Schulman et al.			
	5,336,213	08/09/94	D'Angelo et al.			
	5,366,454	11/22/94	Currie et al.			
	5,368,704	11/29/94	Madou et al.			
	5,585,069	12/17/96	Zanzucchi et al.			
	5,713,954	02/03/98	Rosenberg et al.			
	5,797,898	08/25/98	Santini, Jr., et al.			
	5,807,397	09/15/98	Barreras			
	5,842,787	12/01/98	Kopf-Sill et al.			
	5,962,081	10/05/99	Öhman et al.			
	6,047,214	04/04/00	Mueller et al.			
mark	6,123,861	09/26/00	Santini, Jr. et al.			

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

mark	Madou, <u>Fundamentals of Microfabrication</u> , pp. 468-512 (CRC Press 1997)
	Madou & He, "Exploitation of a Novel Artificial Muscle for Controlled Drug Delivery," pp. 495-497 (1999).
	Surbled, et al., "Characterization of Sputtered TiNi Shape Memory Alloy Thin Films," <i>Jpn. J. Appl. Phys.</i> 38: L1547-L1549 (1999).
mark	Surbled, et al., "Shape Memory Alloys for Micromembranes Actuation," <i>SPIE</i> 3825: 63-70 (1999).

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APPLICANT(S) Sheppard, Jr., et al.	GROUP 1614		25 2002 LEVEL

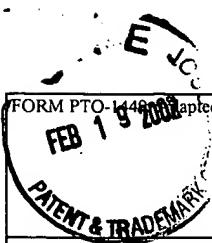
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<i>math.</i>	Surbled, et al., "Array of Shape Memory Alloy One-Shot Micro-Valves for Drug Delivery," MME '99, Gif sur Yvette, France (Sept. 27-28, 1999).
	Tierney, et al., "New Electrorelease Systems Based on Microporous Membranes," <i>J. Electrochem. Soc.</i> , 137:3789-3793 (1990).
	Tierney, et al., "Electroreleasing Composite Membranes for Delivery of Insulin and Other Biomacromolecules," <i>J. Electrochem. Soc.</i> , 137:2005-2006 (1990).
<i>V</i>	Frankenthal & Eaton, <i>J. Electrochem. Soc.</i> , 123(5): 703-06 (1976)

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Sheppard, Jr., et al.		1614	

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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>mah.</i>	Palmore & Whitesides, "Microbial and Enzymatic Biofuel Cells," <i>Enzymatic Conversion of Biomass for Fuel Production</i> , ACS Symposium Series 566:271-90 (1994).
	Kano & Ikeda, "Fundamentals and practices of mediated bioelectrocatalysis," <i>Analytical Sci.</i> , 16(10):1013-21 (2000).
	Wilkinson, Autonomous Robots, 9(2): 99-111 (2000)
	Vladimirsky, et al., "Thin Metal Film Thermal Micro-Sensors," <i>Proc. SPIE-Int. Soc. Opt. Eng.</i> 2640:184-92 (1995).
	Izumi, <i>J. Electroanal. Chem.</i> , 301:151-60 (1991).
↓	Liu C., et al. "Applications of microfabrication and micromachining techniques to biotechnology," <i>Trends in Biotechnology</i> , Vol. 15, No. 6, pp 213-216.

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